

CLAIMS

What is claimed is:

1. A high speed safety block assembly, comprising:

5 a first cheek plate and second cheek plate, the cheek plates each having a top end and a bottom end, the cheek plates also each having an inner surface with a recessed area with an axle hole located centrally therein, the first and second cheek plates each also having a pair of raised ear sections at top and bottom ends, the raised ear sections forming a slot between the ear and the inner surface of the cheek plates, such that, the ear sections on the first cheek plate interlock with the 10 ear sections on the second cheek plate;

an axle having a bearing surface, the axle being positioned between the first and second cheek plates, and fitting within the axle holes on the first and second cheek plates; and

15 a sheave positioned between the first and second cheek plates, the sheave having a central hole with a needle bearing fixed within the central hole, the needle bearing of the sheave fitting onto the bearing surface of the axle

2. The high speed safety block assembly of claim 1, wherein the axle is press fit into the first cheek plate.

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3. The high speed safety block assembly of claim 1, wherein the axle is hollow and includes a lubrication hole through the bearing surface of the axle.

4. The high speed safety block assembly of claim 1, wherein the needle bearing is press fit into the sheave.
5. The high speed safety block assembly of claim 1, wherein the first and second cheek plates have a hole through the top and bottom ends.
6. The high speed safety block assembly of claim 5, wherein the hole at the bottom end of the first and second cheek plates is elongated.

10 7. A high speed safety block assembly, comprising:
a first cheek plate and second cheek plate, the cheek plates each having a top end and a bottom end, the cheek plates also each having an inner surface with a recessed area with an axle hole located centrally therein, the first and second cheek plates each also having a pair of raised ear sections at top and bottom ends, the raised ear sections forming a slot between the ear and the inner surface of the cheek plates, such that, the ear sections on the first cheek plate interlock with the ear sections on the second cheek plate, the cheek plates also each having a hole through the top and bottom ends;

15 a hollow axle with a bearing surface and having a lubrication hole through the bearing surface, the axle being positioned between the first and second cheek plates, and press fit between the axle holes on the first cheek plate; and

20 a sheave positioned between the first and second cheek plates, the sheave having a central hole with a needle bearing press fit within the central hole, the needle bearing of the sheave fitting onto the bearing surface of the axle.